



Massachusetts Department of Energy Resources
Creating A Greener Energy Future For the Commonwealth

Energy Leaders: Renewable Energy and Energy Efficiency

The Massachusetts Department of Energy Resources (DOER) has created a web resource to showcase a variety of energy-saving measures being employed in the Commonwealth's private sector. This case study is the second of series providing details about energy measures for commercial spaces.

If you're a Massachusetts company interested in learning more about what renewable energy and energy efficiency can do for your business, visit the DOER Web page for the Commonwealth Energy Resource Team: <http://tinyurl.com/DOER-CERT>

EBSCO Publishing Implements Renewable Energy and Energy Efficiency Measures at Ipswich Facility



Green energy policies are important at EBSCO Publishing, a leading provider of online resources for students and researchers and one of the largest employers in Ipswich. "We have made corporate responsibility a part of our mission at EBSCO Publishing and have worked to not only change the way we do things, but to educate our employees so they can do their part," EBSCO Publishing President, Tim Collins (pictured at left in front of his home solar array) says, "My wife, Emily, and I are strong believers in alternative energies and resource

conservation. We've incorporated various resources into our own home, including a solar hot water system and a photovoltaic system which produces more electricity than we use. We are trying to do the right thing by reducing our impact on the environment."

Solar – EBSCO Publishing has installed two rooftop arrays of solar panels at its Ipswich facility. The installation of these two solar arrays, costing about \$600,000 in total, was self-funded. Because its Ipswich location is served by a municipal power and light division, EBSCO Publishing was not eligible to receive grants through the Massachusetts Renewable Energy Trust. Customers of the state's major investor-owned utilities, however, may be eligible for grant money from the Commonwealth Solar program (LINK) to offset a portion of the cost solar panel installation.

Other Renewable Energy Measures – EBSCO Publishing is exploring additional renewable energy projects. The company is currently in the permitting process for the installation of a wind turbine on the roof deck of its parking garage and is exploring other clean energy generation options, including micro-hydro power and combined heat and power generation.



Thomas Wheeler, Chief Financial Officer and Vice President of EBSCO Publishing, says, “Our investments are starting to pay dividends in terms of cost savings and, more importantly, carbon footprint reduction. We recently received our August 2008 monthly electric bills and the reduction in kilowatt hours used, and thus carbon output, compared to August 2007 exceeded our expectations: kilowatt hours used fell an impressive 22% in the Old Mill building, where the first solar array was installed in August 2007, and 13% in the Riverside building, where the second solar array was installed in June 2008.”

In addition to using renewable energy, EBSCO Publishing has worked to use energy more efficiently in their effort to green their campus. Energy efficiency measures at EBSCO Publishing include:

Energy Management System and Controls –The Energy Management System, in combination with other building renovations, is projected to potentially save over 20% in energy consumption per year. A networked building management system was installed to allow all air conditioning and heating equipment to be controlled by computer. A significant benefit is the ability to control cooling needs according to weather conditions. For example, when outside temperatures are cool, fans can be run without also running the air conditioning compressors. In addition, motion sensors were installed in open areas throughout the Riverside building to control interior lighting.

Small-Scale Efficiency Measures –In conjunction with the above projects, EBSCO Publishing has undertaken a number of small-scale projects to green their workplace. Light bulbs have been changed from incandescent to high-efficiency fluorescents. "Vending Misers" have been installed on vending machines and coolers around campus to help to reduce energy consumption by these machines by up to 50%.

Alternative Transportation – The company's fleet of corporate cars is being switched over to hybrid models. Commuter Rail reimbursement is available for employees to encourage the use of public transportation.



Learn More About Energy

For more information about these and other energy measures for office space facilities, go to the DOER Commonwealth Energy Resource Team Web site. This resource was established to assist businesses as they face the ongoing challenges of complete energy planning. Available information includes:

- How to leverage existing utility and state offered programs
- Comprehensive energy audits
- Energy tracking tools
- Efficiency and on-site clean energy solutions
- Funding opportunities
- Fact sheets and case studies

Visit the site: <http://tinyurl.com/DOER-CERT>